SEQUENCE LISTING

<110> C. Frank Bennett
      Susan M. Freier

<120> ANTISENSE MODULATION OF GLIOMA-ASSOCIATED ONCOGENE-3 EXPRESSION

<130> RTS-0258

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Glu Ala Gln Ser His Ser Ser Thr Thr Thr Glu Lys Lys Lys Val Glu
              5   10   15

aat tcc ata gtg aag tgc tcc act cga aca gat gtg agc gag aaa gcc   153
Asn Ser Ile Val Lys Cys Ser Thr Arg Thr Asp Val Ser Glu Lys Ala
             20   25   30

gtt gcc tcc agc acc act tct aat gag gat gaa agt cct gga cag act   201
Val Ala Ser Ser Thr Thr Ser Asn Glu Asp Glu Ser Pro Gly Gln Thr
             35   40   45

tat cac aga gag aga aga aac gca atc act atg cag cca cag aat gtc   249
Tyr His Arg Glu Arg Arg Asn Ala Ile Thr Met Gln Pro Gln Asn Val
 50   55   60   65

cag ggg ctc agc aaa gtc agt gag gaa cct tca aca tcg agt gac gag   297
Gln Gly Leu Ser Lys Val Ser Glu Glu Pro Ser Thr Ser Ser Asp Glu
                     70   75   80

agg gcc tca ttg atc aag aaa gag atc cat ggg tcc ctg cca cac gtg   345
Arg Ala Ser Leu Ile Lys Lys Glu Ile His Gly Ser Leu Pro His Val
                 85   90   95

gcg gag ccc tct gtg ccg tac cgc ggg acg gtg ttt gcc atg gac ccc   393
Ala Glu Pro Ser Val Pro Tyr Arg Gly Thr Val Phe Ala Met Asp Pro
            100   105   110

agg aat ggt tac atg gag ccc cac tac cac cct cct cat ctt ttc cct   441
Arg Asn Gly Tyr Met Glu Pro His Tyr His Pro Pro His Leu Phe Pro

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            115                     120                     125

gcc ttc cat cct cct gta cca att gat gcc aga cat cat gag ggc cgt        489
Ala Phe His Pro Pro Val Pro Ile Asp Ala Arg His His Glu Gly Arg
130                     135                     140                 145

tac cat tac gat cca tct ccg att cct cca ttg cat atg act tcc gcc        537
Tyr His Tyr Asp Pro Ser Pro Ile Pro Pro Leu His Met Thr Ser Ala
                    150                     155                 160

tta tct agt agc cct acg tat ccg gac ctg ccc ttc att agg atc tcc        585
Leu Ser Ser Ser Pro Thr Tyr Pro Asp Leu Pro Phe Ile Arg Ile Ser
                    165                     170                 175

cca cac cgg aac ccc gct gct gct tcc gag tct ccc ttc agc cct cca        633
Pro His Arg Asn Pro Ala Ala Ala Ser Glu Ser Pro Phe Ser Pro Pro
            180                     185                     190

cat ccc tac att aat ccc tac atg gac tat atc cgc tcc ttg cac agc        681
His Pro Tyr Ile Asn Pro Tyr Met Asp Tyr Ile Arg Ser Leu His Ser
            195                     200                     205

agc cca tcg ctc tcc atg atc tca gca acc cgt ggg ctg agc cct aca        729
Ser Pro Ser Leu Ser Met Ile Ser Ala Thr Arg Gly Leu Ser Pro Thr
210                     215                     220                 225

gat gcg ccc cat gca gga gtc agc cca gca gaa tac tat cat cag atg        777
Asp Ala Pro His Ala Gly Val Ser Pro Ala Glu Tyr Tyr His Gln Met
                    230                     235                 240

gcc ctg cta act ggc cag cgc agc ccc tat gca gac att att ccc tca        825
Ala Leu Leu Thr Gly Gln Arg Ser Pro Tyr Ala Asp Ile Ile Pro Ser
                    245                     250                 255

gct gcc acc gcc ggc acg ggg gcc atc cac atg gaa tat ctt cat gct        873
Ala Ala Thr Ala Gly Thr Gly Ala Ile His Met Glu Tyr Leu His Ala
                    260                     265                 270

atg gat agc acc aga ttc tcc agc ccc agg ctg tca gcc agg ccg agc        921
Met Asp Ser Thr Arg Phe Ser Ser Pro Arg Leu Ser Ala Arg Pro Ser
            275                     280                     285

cga aaa cgt aca ctg tcc ata tca cca ctc tcc gat cat agc ttt gac        969
Arg Lys Arg Thr Leu Ser Ile Ser Pro Leu Ser Asp His Ser Phe Asp
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ctt cag acc atg ata agg acg tct ccc aac tcc ttg gtc acg att ctc        1017
Leu Gln Thr Met Ile Arg Thr Ser Pro Asn Ser Leu Val Thr Ile Leu
                    310                   315                   320


aat aat tcc cgt agc agc tct tca gca agt ggc tcc tat ggt cac tta        1065
Asn Asn Ser Arg Ser Ser Ser Ser Ala Ser Gly Ser Tyr Gly His Leu
                    325                   330                   335


tct gca agt gca atc agc cct gcc ttg agc ttc acc tac tct tcc gcg        1113
Ser Ala Ser Ala Ile Ser Pro Ala Leu Ser Phe Thr Tyr Ser Ser Ala
                340                   345                   350


ccc gtc tct ctc cac atg cat cag cag atc cta agc cga caa cag agc        1161
Pro Val Ser Leu His Met His Gln Gln Ile Leu Ser Arg Gln Gln Ser
            355                   360                   365


tta ggt tca gcc ttt gga cac agc cct cca ctc atc cac cct gcc cca        1209
Leu Gly Ser Ala Phe Gly His Ser Pro Pro Leu Ile His Pro Ala Pro
370                   375                   380                   385


act ttt cca aca cag agg cct att cca ggg atc cct acg gtt ctg aac        1257
Thr Phe Pro Thr Gln Arg Pro Ile Pro Gly Ile Pro Thr Val Leu Asn
                    390                   395                   400


ccc gtc cag gtc agc tcc ggc cct tct gag tcc tca cag aac aag ccc        1305
Pro Val Gln Val Ser Ser Gly Pro Ser Glu Ser Ser Gln Asn Lys Pro
                405                   410                   415


acg agt gag tct gca gtg agc agc act ggt gac ccg atg cac aac aag        1353
Thr Ser Glu Ser Ala Val Ser Ser Thr Gly Asp Pro Met His Asn Lys
            420                   425                   430


agg tcc aag atc aaa ccc gat gaa gac ctc ccc agc cca ggg gct cgg        1401
Arg Ser Lys Ile Lys Pro Asp Glu Asp Leu Pro Ser Pro Gly Ala Arg
        435                   440                   445


ggg cag cag gaa cag ccc gaa gga aca acc ctt gtc aag gag gaa ggg        1449
Gly Gln Gln Glu Gln Pro Glu Gly Thr Thr Leu Val Lys Glu Glu Gly
450                   455                   460                   465


gac aaa gat gaa agc aaa cag gag cct gaa gtc atc tat gag aca aac        1497
Asp Lys Asp Glu Ser Lys Gln Glu Pro Glu Val Ile Tyr Glu Thr Asn
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                  470   475   480

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tgc cac tgg gaa ggc tgc gcg agg gag ttc gac acc caa gag cag ctt    1545
Cys His Trp Glu Gly Cys Ala Arg Glu Phe Asp Thr Gln Glu Gln Leu
        485                    490                    495


gtg cac cat ata aat aac gac cat att cat gga gag aag aag gag ttc    1593
Val His His Ile Asn Asn Asp His Ile His Gly Glu Lys Lys Glu Phe
        500                    505                    510


gtg tgc agg tgg ctg gac tgc tca aga gag cag aaa ccc ttc aaa gcc    1641
Val Cys Arg Trp Leu Asp Cys Ser Arg Glu Gln Lys Pro Phe Lys Ala
        515                    520                    525


cag tat atg ttg gta gtg cat atg aga aga cac acg ggc gag aag cct    1689
Gln Tyr Met Leu Val Val His Met Arg Arg His Thr Gly Glu Lys Pro
530                    535                    540                    545


cac aaa tgc act ttt gaa ggt tgc aca aag gcc tac tcg aga cta gaa    1737
His Lys Cys Thr Phe Glu Gly Cys Thr Lys Ala Tyr Ser Arg Leu Glu
                550                    555                    560


aac ttg aaa aca cac ttg aga tct cac act gga gag aaa cca tac gtc    1785
Asn Leu Lys Thr His Leu Arg Ser His Thr Gly Glu Lys Pro Tyr Val
                565                    570                    575


tgt gag cac gaa ggt tgc aac aag gct ttc tca aat gcc tct gat cgc    1833
Cys Glu His Glu Gly Cys Asn Lys Ala Phe Ser Asn Ala Ser Asp Arg
        580                    585                    590


gcc aaa cac caa aac aga acg cat tcc aat gag aaa cca tat gtg tgc    1881
Ala Lys His Gln Asn Arg Thr His Ser Asn Glu Lys Pro Tyr Val Cys
        595                    600                    605


aaa atc cca ggc tgc act aag cgt tac aca gac cca agc tcc ctc cgg    1929
Lys Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu Arg
610                    615                    620                    625


aaa cat gtg aag aca gtg cat ggc cca gag gct cat gtc acc aag aag    1977
Lys His Val Lys Thr Val His Gly Pro Glu Ala His Val Thr Lys Lys
                630                    635                    640


cag cga ggg gac atc cat cct cgg ccg cca ccc ccg aga gat tcc ggc    2025
Gln Arg Gly Asp Ile His Pro Arg Pro Pro Pro Pro Arg Asp Ser Gly
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            645                   650                   655

agc cat tca cag tcc agg tcg cct ggc cga ccg act cag gga gcc ctt      2073
Ser His Ser Gln Ser Arg Ser Pro Gly Arg Pro Thr Gln Gly Ala Leu
        660                   665                   670

ggt gag cag cag gac ctc agc aac act acc tca aag cgg gaa gaa tgc      2121
Gly Glu Gln Gln Asp Leu Ser Asn Thr Thr Ser Lys Arg Glu Glu Cys
        675                   680                   685

ctc cag gtg aaa acc gtc aag gca gag aag cca atg aca tct cag cca      2169
Leu Gln Val Lys Thr Val Lys Ala Glu Lys Pro Met Thr Ser Gln Pro
690                   695                   700                   705

agc cct ggt ggt cag tct tca tgc agc agc caa cag tcc ccc atc agc      2217
Ser Pro Gly Gly Gln Ser Ser Cys Ser Ser Gln Gln Ser Pro Ile Ser
                710                   715                   720

aac tat tcc aac agt ggg ctc gag ctt cct ctg acc gat gga ggt agt      2265
Asn Tyr Ser Asn Ser Gly Leu Glu Leu Pro Leu Thr Asp Gly Gly Ser
                725                   730                   735

ata gga gac ctc agt gcc atc gat gaa acc cca atc atg gac tca acc      2313
Ile Gly Asp Leu Ser Ala Ile Asp Glu Thr Pro Ile Met Asp Ser Thr
        740                   745                   750

att tcc act gca acc aca gcc ctt gct ttg caa gcc agg aga aac ccg      2361
Ile Ser Thr Ala Thr Thr Ala Leu Ala Leu Gln Ala Arg Arg Asn Pro
    755                   760                   765

gca ggg acc aaa tgg atg gag cac gta aaa cta gaa agg cta aaa caa      2409
Ala Gly Thr Lys Trp Met Glu His Val Lys Leu Glu Arg Leu Lys Gln
770                   775                   780                   785

gtg aat gga atg ttt ccg cga ctg aac ccc att cta ccc cct aaa gcc      2457
Val Asn Gly Met Phe Pro Arg Leu Asn Pro Ile Leu Pro Pro Lys Ala
                790                   795                   800

cct gcg gtc tct cct ctc ata gga aat ggc aca cag tcc aac aac acc      2505
Pro Ala Val Ser Pro Leu Ile Gly Asn Gly Thr Gln Ser Asn Asn Thr
                805                   810                   815

tgc agc ttg ggt ggg ccc atg acg ctt ctc ccg ggc aga agc gac ctc      2553
Cys Ser Leu Gly Gly Pro Met Thr Leu Leu Pro Gly Arg Ser Asp Leu
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tct ggg gtg gac gtc act atg ctg aac atg ctc aac aga agg gac agc      2601
Ser Gly Val Asp Val Thr Met Leu Asn Met Leu Asn Arg Arg Asp Ser
    835                    840                    845

agc gcc agc acc atc agc tcg gcc tac ctg agc agc cgc cgc tcc tca      2649
Ser Ala Ser Thr Ile Ser Ser Ala Tyr Leu Ser Ser Arg Arg Ser Ser
850                    855                    860                    865

ggg atc tcg ccc tgc ttc tcc agc cgc cgc tcc agc gag gcg tca cag      2697
Gly Ile Ser Pro Cys Phe Ser Ser Arg Arg Ser Ser Glu Ala Ser Gln
                       870                    875                    880

gcc gag ggc cgg ccg cag aac gtg agc gtg gcc gac tcc tac gac ccc      2745
Ala Glu Gly Arg Pro Gln Asn Val Ser Val Ala Asp Ser Tyr Asp Pro
                  885                    890                    895

atc tcc acc gac gcc tcg cgc cgc tcc agc gaa gcc agc cag agc gac      2793
Ile Ser Thr Asp Ala Ser Arg Arg Ser Ser Glu Ala Ser Gln Ser Asp
             900                    905                    910

ggc ctg ccc agc ctg ctc agc ctc acg ccc gcc cag cag tac cgc ctc      2841
Gly Leu Pro Ser Leu Leu Ser Leu Thr Pro Ala Gln Gln Tyr Arg Leu
        915                    920                    925

aag gcc aag tac gcg gct gcc aca gga ggg ccg ccg ccg acg ccc ctg      2889
Lys Ala Lys Tyr Ala Ala Ala Thr Gly Gly Pro Pro Pro Thr Pro Leu
930                    935                    940                    945

ccc aac atg gag agg atg agc ctg aag acg cgc ctg gcg ctg ctc ggg      2937
Pro Asn Met Glu Arg Met Ser Leu Lys Thr Arg Leu Ala Leu Leu Gly
                  950                    955                    960

gat gcc ctc gag cct ggc gtg gcc ctg cct cca gtt cat gcc ccg agg      2985
Asp Ala Leu Glu Pro Gly Val Ala Leu Pro Pro Val His Ala Pro Arg
                  965                    970                    975

agg tgc agc gac ggg gga gcc cac ggc tac ggg cgg cgc cac ctg cag      3033
Arg Cys Ser Asp Gly Gly Ala His Gly Tyr Gly Arg Arg His Leu Gln
             980                    985                    990

ccg cac gat gcg ctg ggc cac ggc gtg agg agg gcc agc gac ccg gtg      3081
Pro His Asp Ala Leu Gly His Gly Val Arg Arg Ala Ser Asp Pro Val
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cgg aca ggc tcc gag ggc ctg gcc ctg cct cgt gtg ccg cgc ttc agc   3129
Arg Thr Gly Ser Glu Gly Leu Ala Leu Pro Arg Val Pro Arg Phe Ser
1010   1015   1020   1025

agc ctc agc agc tgc aac ccc ccg gcg atg gcc acg tcc gcg gag aag   3177
Ser Leu Ser Ser Cys Asn Pro Pro Ala Met Ala Thr Ser Ala Glu Lys
                    1030   1035   1040

cgc agt ctc gtg ctt cag aat tac acg cgg ccc gag ggc ggc cag tcc   3225
Arg Ser Leu Val Leu Gln Asn Tyr Thr Arg Pro Glu Gly Gly Gln Ser
                1045   1050   1055

cga aac ttc cac tcg tcc ccc tgt cct ccc agc atc acc gag aac gtc   3273
Arg Asn Phe His Ser Ser Pro Cys Pro Pro Ser Ile Thr Glu Asn Val
            1060   1065   1070

acc ctg gag tcc ctg acc atg gac gct gat gcc aac ctg aac gat gag   3321
Thr Leu Glu Ser Leu Thr Met Asp Ala Asp Ala Asn Leu Asn Asp Glu
        1075   1080   1085

gat ttc ctg ccg gac gac gtg gtg cag tat tta aat tcc cag aac caa   3369
Asp Phe Leu Pro Asp Asp Val Val Gln Tyr Leu Asn Ser Gln Asn Gln
1090   1095   1100   1105

gca ggg tac gag cag cac ttc ccc agc gcc ctc ccg gac gac agc aaa   3417
Ala Gly Tyr Glu Gln His Phe Pro Ser Ala Leu Pro Asp Asp Ser Lys
                    1110   1115   1120

gtg ccc cac ggg ccc ggt gac ttt gac gcg ccc ggg ctg cca gac agc   3465
Val Pro His Gly Pro Gly Asp Phe Asp Ala Pro Gly Leu Pro Asp Ser
                    1125   1130   1135

cac gct ggc cag cag ttc cat gcc ctc gag cag ccc tgc ccc gag ggc   3513
His Ala Gly Gln Gln Phe His Ala Leu Glu Gln Pro Cys Pro Glu Gly
                    1140   1145   1150

agc aaa acc gac ctg ccc att cag tgg aac gaa gtc agc tcc gga agc   3561
Ser Lys Thr Asp Leu Pro Ile Gln Trp Asn Glu Val Ser Ser Gly Ser
                1155   1160   1165

gcc gac ctg tcc tcc tcc aag ctc aag tgt ggg ccg cgg ccc gct gtg   3609
Ala Asp Leu Ser Ser Ser Lys Leu Lys Cys Gly Pro Arg Pro Ala Val
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Pro Gln Thr Arg Ala Phe Gly Phe Cys Asn Gly Met Val Val His Pro
                  1190              1195              1200


cag aac ccc ttg agg agc ggg cct gct ggg ggc tat cag acc ctc ggg        3705
Gln Asn Pro Leu Arg Ser Gly Pro Ala Gly Gly Tyr Gln Thr Leu Gly
                  1205              1210              1215


gag aac agc aac ccc tac ggt ggc cca gag cac ttg atg ctc cac aac        3753
Glu Asn Ser Asn Pro Tyr Gly Gly Pro Glu His Leu Met Leu His Asn
                  1220              1225              1230


agc ccc gga agt ggc acc agt gga aac gcc ttc cat gaa cag ccc tgt        3801
Ser Pro Gly Ser Gly Thr Ser Gly Asn Ala Phe His Glu Gln Pro Cys
                  1235              1240              1245


aag gcc ccg cag tat ggg aac tgt ctc aac agg cag cca gtg gcc cct        3849
Lys Ala Pro Gln Tyr Gly Asn Cys Leu Asn Arg Gln Pro Val Ala Pro
        1250              1255              1260              1265


ggt gca ctc gac ggt gcc tgt ggt gcc ggg att caa gcc tca aag ctg        3897
Gly Ala Leu Asp Gly Ala Cys Gly Ala Gly Ile Gln Ala Ser Lys Leu
                  1270              1275              1280


aag agc acc ccc atg caa ggg agc ggg ggc cag ctg aat ttc ggc ctg        3945
Lys Ser Thr Pro Met Gln Gly Ser Gly Gly Gln Leu Asn Phe Gly Leu
                  1285              1290              1295


ccg gta gcg cca aat gag tca gct ggc agc atg gtg aat ggc atg cag        3993
Pro Val Ala Pro Asn Glu Ser Ala Gly Ser Met Val Asn Gly Met Gln
                  1300              1305              1310


aac cag gac cca gtg gga cag ggg tac ctg gct cac cag ctc ctc ggc        4041
Asn Gln Asp Pro Val Gly Gln Gly Tyr Leu Ala His Gln Leu Leu Gly
        1315              1320              1325


gac agc atg cag cac ccg ggg gca ggc cgc ccc ggt cag cag atg ctt        4089
Asp Ser Met Gln His Pro Gly Ala Gly Arg Pro Gly Gln Gln Met Leu
1330              1335              1340              1345


ggg cag att agt gct acc tca cac atc aac atc tac caa ggg cca gag        4137
Gly Gln Ile Ser Ala Thr Ser His Ile Asn Ile Tyr Gln Gly Pro Glu
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agc tgc ctg cca ggg gct cac ggc atg ggc agc cag ccg tca agc ttg        4185
Ser Cys Leu Pro Gly Ala His Gly Met Gly Ser Gln Pro Ser Ser Leu
            1365                  1370                  1375


gca gtt gtc agg ggc tac cag cca tgt gcc agc ttt ggg ggc agc agg        4233
Ala Val Val Arg Gly Tyr Gln Pro Cys Ala Ser Phe Gly Gly Ser Arg
            1380                  1385                  1390


cgc cag gct atg ccg agg gac agc ctt gct ctg cag tca gga cag ctc        4281
Arg Gln Ala Met Pro Arg Asp Ser Leu Ala Leu Gln Ser Gly Gln Leu
            1395                  1400                  1405


agt gac aca agt cag acc tgc agg gtg aat ggt atc aag atg gag atg        4329
Ser Asp Thr Ser Gln Thr Cys Arg Val Asn Gly Ile Lys Met Glu Met
1410                  1415                  1420                  1425


aaa ggg cag ccc cat ccg ctg tgc tct aat ctg cag aat tac tct ggt        4377
Lys Gly Gln Pro His Pro Leu Cys Ser Asn Leu Gln Asn Tyr Ser Gly
                    1430                  1435                  1440


cag ttc tat gac caa acc gtg ggc ttc agt cag caa gac acg aaa gct        4425
Gln Phe Tyr Asp Gln Thr Val Gly Phe Ser Gln Gln Asp Thr Lys Ala
            1445                  1450                  1455


ggt tca ttc tct att tca gac gcc agc tgc ctg cta cag ggg acc agc        4473
Gly Ser Phe Ser Ile Ser Asp Ala Ser Cys Leu Leu Gln Gly Thr Ser
            1460                  1465  .               1470


gcc aaa aac tct gag tta ctt tcc cca ggt gct aat cag gtg aca agc        4521
Ala Lys Asn Ser Glu Leu Leu Ser Pro Gly Ala Asn Gln Val Thr Ser
            1475                  1480                  1485


aca gtg gac agc ctc gac agc cat gac ctg gaa ggg gta cag att gac        4569
Thr Val Asp Ser Leu Asp Ser His Asp Leu Glu Gly Val Gln Ile Asp
1490                  1495                  1500                  1505


ttc gat gcc atc ata gac gat ggg gac cac tcc agc ctg atg tcg ggg        4617
Phe Asp Ala Ile Ile Asp Asp Gly Asp His Ser Ser Leu Met Ser Gly
                    1510                  1515                  1520


gcc ctg agc cca agt atc att cag aac ctt tcc cat agc tcc tcc cgc        4665
Ala Leu Ser Pro Ser Ile Ile Gln Asn Leu Ser His Ser Ser Ser Arg
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ctc acc acg cct cgg gcg tcc ctc cca ttc cca gtc gct gtc cat gag      4713
Leu Thr Thr Pro Arg Ala Ser Leu Pro Phe Pro Val Ala Val His Glu
        1540              1545              1550


cac cac caa cat ggc tat cgg gga cat gag ttc ttt gct gac ctc cct      4761
His His Gln His Gly Tyr Arg Gly His Glu Phe Phe Ala Asp Leu Pro
        1555              1560              1565


agc gga aga aag caa att cct tgc agt tat gca ata ggc ttt agg aaa      4809
Ser Gly Arg Lys Gln Ile Pro Cys Ser Tyr Ala Ile Gly Phe Arg Lys
1570              1575              1580              1585


aaa aga ctg caa cca acg gaa atc aat agg agt tga agagattaaa          4855
Lys Arg Leu Gln Pro Thr Glu Ile Asn Arg Ser
                1590              1595


ctgactttgt tttggctgtt tttttagttc tgtatgtatt ttagcaatct catctcacct    4915

aactgagatg tgtttcaatt atattccttt tatggaaaag gactctgaaa aaccctaaag    4975

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accgtttgat accaaacgct cagtagggat ttgggaaaag taccatgtta tgggcatttc 360
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